

Express Mail Label No.: EV335644707US

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Comaniciu et al.      Docket: 2003P01633US01  
(8706-696)

Serial No.: Concurrently herewith

Filed: Unassigned

Date: February 2, 2004

For: **REAL-TIME OBSTACLE DETECTION WITH A CALIBRATED  
CAMERA AND KNOWN EGO-MOTION**

MAIL STOP PATENT APPLICATION  
Commissioner for Patents  
PO Box 1450  
Alexandria VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to Applicant(s) duty of disclosure, the information listed in the attached form PTO-1449 is brought to the attention of the Examiner. Copies of the listed items are enclosed.

The citation of the listed items is not a representation that they constitute a complete or exhaustive listing of the relevant art or that the references are prior art.

The items listed are submitted in good faith, but are not intended to substitute for the Examiner's search. It is hoped,



however, that in addition to apprising the Examiner of these particular items, they will assist in identifying fields of search and in making as full and complete a search as possible.

The filing of this information disclosure statement is not an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

[X] This information disclosure statement is being filed within three (3) months of the filing date of this application.

[X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account 19-2179. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 19-2179 therefor. A copy of this sheet is enclosed.


The claims of the application as now presented are believed to patentably distinguish over the prior art and to be



in condition for allowance. Early and favorable consideration of the case is respectfully requested.

Respectfully submitted,

By:

  
Donald B. Paschburg, Esq.  
Reg. No. 33,753  
Attorney for Applicant(s)

**Mailing Address:**

Siemens Corporation  
Intellectual Property Dept, 5<sup>TH</sup> Floor  
170 Wood Avenue South  
Iselin, New Jersey 08830  
(732) 321-3191  
(732) 321-3030 (FAX)



Form PTO-1449 U.S. DEPARTMENT OF COMMERCE  TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO.  2003 P 01633 US01 (8706-696)	SERIAL NO.  Unassigned
APPLICANT  Comaniciu et al.		
FILING DATE  Concurrently herewith		GROUP  Art Unit

## U.S. PATENT DOCUMENT

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLAS S	SUBCLA SS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLAS S	SUBCLA SS	TRANSLATIO N	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	1. Massimo Bertozzi, et al., "Sensing of Automotive Environments Using Stereo Vision", 97RO044
	2. Heinrich Niemann, et al. "Integrated Motion and Geometry Based Obstacle Detection in Image Sequences of Traffic Scenes" Proceedings SPIE, 2736, 1996 pp.228-239.
	3. Serge Beucher, et al. "Road Monitoring and Obstacle Detection System by Image Analysis and Mathematical Morphology" pp. 1-12
	4. Simon J. Julier, et al. "A Non-divergent Estimation Algorithm in the Presence of Unknown Correlations"
	5. Lingji Chen, et al. "Estimation Under Unknown Correlation: Covariance Intersection Revisited", pp. 1-9

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.